CHARACTERIZATION OF F1 HYBRID GOLDEN MELON IN HYDROPONIC CULTIVATION BASED ON SMART FARMING SYSTEM

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ABSTRACT

Characterization is the first step for getting superior varieties. This study aims to find out the qualitative and quantitative character of golden melon F1 in smart farming hydroponic cultivation and determine the correlation between quantitative character with fruit weight as well as the sweetness of hybrid golden melon F1. The study used a Complete Randomized Design with 4 replication. The treatment uses 6 varieties of hybrid golden melon F1, namely Aurora, Orange, Alisha, Naysila, Apollo, and Yurika. Qualitative data was analyzed using descriptive analysis while quantitative data was analyzed using variety analysis (ANOVA) and in the 5% DMRT advanced test, then continued with correlation analysis. The results showed that there was a substantial influence on the height of plants aged 21 DAP, plant height at the age of 28 DAP, the number of leaves at the age of 28 DAP, stem diameter, growing age of flowers, harvest age, sweetness levels. The qualitative character of the shape of the fruit and the shape of the leaves also affects several varieties. Fruit weight is known to be positively correlated with horizontal circumference, vertical circumference and thick fruit flesh. Sweetness levels have a positive correlation with horizontal circumference.

Keywords : Melon, Characterization, Correlation